Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical and Earth Sciences:INSPEC; PASCAL/CNRS)

VOLUME 29 (1988)

Special issue: Emulsification and Demulsification

Preface	vii
Emulsification and demulsification — An historical overview	
K.J. Lissant (Clever, MO, U.S.A.)	1
Characterization of oil-water interfaces containing finely divided solids with applications to	
the coalescence of water-in-oil emulsions: A review	
V.B. Menon and D.T. Wasan (Chicago, IL, U.S.A.)	7
Investigations into the electrical and coalescence behaviour of water-in-crude emulsion in	
high voltage gradients	
S.E. Taylor (Sunbury-on-Thames, United Kingdom)	29
Stability of macroemulsions	
R.D. Hazlett (Dallas, TX, U.S.A.) and R.S. Schechter (Austin, TX, U.S.A.)	53
Droplet coalescence near liquid/liquid critical points	
R.D. Hazlett (Dallas, TX, U.S.A.) and R.S. Schechter (Austin, TX, U.S.A.)	71
Spontaneous emulsification produced by diffusion — A review	
C.A. Miller (Houston, TX, U.S.A.)	89
The miniemulsification process — Different form of spontaneous emulsification	
M.S. El-Aasser, C.D. Lack, J.W. Vanderhoff and F.M. Fowkes (Bethlehem, PA, U.S.A.)	103
Solubilization in microemulsions and application to separations	
J.M. Wiencek and S. Qutubuddin (Cleveland, OH, U.S.A.)	119
Slurries and emulsions of waxy and heavy crude oils for pipeline transportation of crude oil	
S.S. Marsden, K. Ishimoto and L. Chen (Stanford, CA, U.S.A.)	133
End of special issue papers	
Interaction between a stationary mercury electrode and a hydrogen bubble in an aqueous sodium dodecyl sulphate solution	
M. Kaisheva (Sofia, Bulgaria), S. Usui and D. Qi (Sendai, Japan)	147
On the modulation of capillary surface waves	
B.C. Bonekamp and A. Prins (Wageningen, The Netherlands)	159
Synthetic, kinetic and analytical studies on titanium (IV) arsenosilicate ion exchanger:	
Separation of lead from its synthetic alloys	
K.G. Varshney, K. Agrawal, S. Agrawal, V. Saxena and A.R. Khan (Aligarh, India)	175
Processing of magnesium carbonate fines by dissolved-air flotation	
K.A. Matis, Th. N. Balabanidis and G.P. Gallios (Thessaloniki, Greece)	191
Thermodynamics of the system lead sulfide and thiol collector	
J.O. Leppinen and J.K. Rastas (Espoo, Finland)	205
Cationic flotation of quartz from an artificial mixture with hematite using hexylamine	
S. Takeda and S. Usui (Sendai, Japan)	221

Continuous water purification system for Langmuir film studies J.D. Schutt and G.W. Burkhart (Cleveland, OH, U.S.A.)	. 233
Special issue: Dispersion Technology in Microelectronics	
Preface	. 241
Surface and colloid chemical studies of gamma iron oxides for magnetic memory media F.M. Fowkes, Y.C. Huang, B.A. Shah, M.J. Kulp and T.B. Lloyd (Bethlehem, PA, U.S.A.)	0.49
A flow microcalorimetric investigation of the acidity of chromium dioxide and γ -iron oxide	
G.F. Hudson and S. Raghaven (Tucson, AZ, U.S.A.) Effect of a sterically stabilizing surfactant on the nucleation, growth and agglomeration of monosized ceramic powders	
J.H. Jean and T.A. Ring (Cambridge, MA, U.S.A.)	. 273
The origin of the surface charge on particles suspended in organic liquids M.E. Labib (Princeton, NJ, U.S.A.)	. 293
Non-aqueous dispersion properties of pure barium titanate for tape casting	
K.R. Mikeska and W.R. Cannon (Piscataway, NJ, U.S.A.)	. 305
Dynamic stability of liquid-liquid dispersions containing polymeric suspension stabilizers	
S.I. Chung and D.T. Wasan (Chicago, IL, U.S.A.)	. 323
End of special issue papers	
Catalytic conversion of n-pentanol to 1,1-dialkyl ether by aluminium and iron exchanged montmorillonite catalyst	
A.M. Habib, A.A. Saafan, A.K. Abou-Seif and M.A. Salem (Tanta, Egypt)	
P. Bahadur, N.V. Sastry, Y.K. Rao (Surat, India) and G. Riess (Mulhouse, France) Adsorption kinetics of proteins onto solid surfaces in the limit of the interfacial interaction control	. 345
J.D. Aptel, J.C. Voegel and A. Schmitt (Strasbourg, France)	. 359
Sorption-desorption studies of anionic dyes on alumina pretreated with acids	
V.K. Jain, G.L. Mundhara and J.S. Tiwari (Raipur, India)	. 373
Stability of non-aqueous dispersions. Paper 7. Electrostatic stabilization of concentrated colloidal dispersions	
J.H. Green and G.D. Parfitt (Wilmington, DE, U.S.A.)	. 391
Liquid-liquid distribution in reversed micellar systems K. Osseo-Asare (University Park, PA, U.S.A.)	. 403
Application of the cohesive energy ratio concept (CER) to the formation of polymerizable microemulsions	
C. Holtzscherer and F. Candau (Strasbourg, France)	. 411
Phase transitions in insoluble monolayers at the air/water interface A. Dhathathreyan (Göttingen, F.R.G.)	. 425
Author Index	431
Subject Index	
Contents (Volume 29)	437

